

No.

7200076



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Peterson Seed Division  
Pioneer Hi-Bred International, Inc.  
Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS PERMITTED BY THE OWNER OF THE RIGHTS. (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Peterson Jade'

In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington  
this 30th day of September in  
the year of our Lord one thousand nine  
hundred and seventy-four

Attest:

*J. J. Rollin*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Earl L. Buttz*  
Secretary of Agriculture

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION PETERSON JADE	2. KIND NAME SOYBEAN	FOR OFFICIAL USE ONLY	
		PVPO NUMBER 72076	
3. GENUS AND SPECIES NAME Glycine max	4. FAMILY NAME (Botanical) Leguminosae	FILING DATE 1-17-72	TIME 10:45 A.M.
	5. DATE OF DETERMINATION November 11, 1971	FEE RECEIVED \$50	CHARGES
6. NAME OF APPLICANT(S) PETERSON SEED CO., INC. Dr. C.R. Weber, Breeder	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 3261 W. Airline Highway Waterloo, Iowa 50701	8. TELEPHONE AREA CODE AND NUMBER 319-234-0335	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation	10. STATE OF INCORPORATION Minnesota	11. DATE OF INCORPORATION June 1, 1960	

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Larry Peterson  
PETERSON SEED CO., INC.  
3261 W. Airline Highway  
Waterloo, Iowa 50701

## 13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 12A. Exhibit A, Origin and Breeding History of the Variety (See Section 52, P.L. 91-577)
- ☒ 12B. Exhibit B, Botanical Description of the Variety
- ☒ 12C. Exhibit C, Objective Description of the Variety
- ☒ 12D. Exhibit D, Data Indicative of Novelty
- ☒ 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. (See Section 52, P.L. 91-577).

- 14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a), P.L. 91-577) (If "Yes," answer 14B and 14C below.) ☒ YES ☐ NO
- 14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☒ YES ☐ NO
- 14C. If "Yes," to 14B, how many generations of production beyond breeder seed? Foundation, Registered, Certified

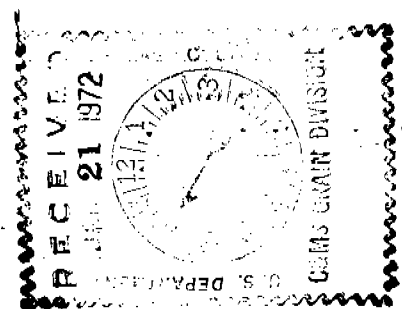
Applicant is informed that false representation herein can jeopardize protection and result in penalties.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act (P.L. 91-577).

PETERSON SEED CO., INC.

January 17, 1972  
(DATE)January 17, 1972  
(DATE)G. R. Weber  
(SIGNATURE OF APPLICANT) V.P. & Res. Dir.Larry Peterson  
(SIGNATURE OF APPLICANT) Pres.

## INSTRUCTIONS



**GENERAL:** Send an original copy of the application, exhibits and \$50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

## ITEM

- 5 Insert the date the applicant determined that he had a new variety.
- 12a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 12b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may be sterile. Where possible, include photographs of plant comparisons, chemical tests, etc.
- 12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

Revised Attachments: Peterson Jade soybean (Dec 31, 1973)

- RFS
- 12.A. Peterson Jade originated from a cross of Verde x Kanrich. It is an  $F_2$  derived line in the  $F_5$ . It was multiplied after the first test and has been tested for two years and will be tested along with further increases. It is uniform within for maturity, height, lodging, hila and seed coat color.
- 12.B. Peterson Jade has purple flowers, grey pubescence, brown pod color, dull seed coat luster, green seed coat and cotyledon color, light buff hila and is resistant to shattering. As compared with commercial large-seeded types currently on the market it is more like Verde than any other variety, both having a green seed coat and green cotyledon when fully ripe. Jade yields 20 to 25% more than Verde, is earlier, has much larger seed, has better lodging resistance, and is far superior in resistance to shattering.
- 12.C. See Objective Description of Variety (Glycine Max).
- PETERSON
- 12.D. As compared with Verde, Peterson Jade is 7 days earlier in maturity, 3 inches taller, has much larger seed and far superior seed quality. It yields at least 20% more than Verde and is higher in protein. It holds the seeds in its pods when ripe much better than Verde, and stands better making it a much easier crop to harvest. A 10 day old seedling of Jade grown under constant light in a growth chamber (500 foot candles using VHO Gro Lux lights) at 25 degrees centigrade and a humidity between 85 & 90% has a seedling length of 297 MM, a cotyledon length of 26 MM and a cotyledon width of 16 MM vs. 242 MM, 22 MM and 13 MM respectively for Verde.
- 12.E. The Peterson Seed Company is the sole owner of the Peterson Jade variety

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

PETERSON SEED CO., INC. Dr. C.R. Weber - Breeder

ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)

3261 W. Airline Highway  
Waterloo, Iowa 50701

FOR OFFICIAL USE ONLY

PVPO NUMBER

72076

VARIETY NAME OR TEMPORARY  
DESIGNATION

Peterson Jade

Place the appropriate number that describes the varietal character of this variety in the boxes below.

## 1. SEED SHAPE:

 1 = SPHERICAL    2 = SPHERICAL  
FLATTENED    3 = ELONGATE    4 = OTHER (Specify)

## 2. SEED COAT COLOR:

 1 = YELLOW    2 = GREEN    3 = BROWN    4 = BLACK  
5 = OTHER (Specify)

SHADE:

 1 = LIGHT    2 = MEDIUM    3 = DARK

## 3. SEED COAT LUSTER:

 1 = DULL    2 = SHINY

## 4. SEED SIZE

  GRAMS PER 100 SEEDS

## 5. HILUM COLOR:

 1 = BUFF    2 = YELLOW    3 = BROWN    4 = GRAY    5 = IMPERFECT  
BLACK    6 = BLACK    7 = OTHER (Specify)

SHADE:

 1 = LIGHT    2 = MEDIUM    3 = DARK

## 6. COTYLEDON COLOR:

 1 = YELLOW    2 = GREEN

## 7. LEAFLET SIZE (See Reverse):

 1 = SMALL    2 = MEDIUM    3 = LARGE

## 8. LEAFLET SHAPE:

 1 = OVATE    2 = OBLONG    3 = LANCEOLATE    4 = ELLIPTICAL    5 = OTHER (Specify)

## 9. LEAF COLOR (See reverse):

 1 = LIGHT GREEN    2 = MEDIUM GREEN    3 = DARK GREEN

## 10. FLOWER COLOR:

 1 = WHITE    2 = PURPLE  
3 = OTHER (Specify)

## 11. POD COLOR:

 1 = TAN    2 = BROWN    3 = BLACK

## 12. POD SET:

 1 = SCATTERED    2 = CONCENTRATED

## 13. PLANT PUBESCENCE COLOR:

 1 = GRAY    2 = BROWN    3 = OTHER (Specify)

SHADE:

 1 = LIGHT    2 = MEDIUM    3 = DARK

## 14. PLANT TYPES (See Reverse):

 1 = SLENDER    2 = BUSHY    3 = INTERMEDIATE

## 15. PLANT HABIT:

 1 = DETERMINATE    2 = INDETERMINATE  
3 = OTHER (Specify)

## 16. HYPOCOTYL COLOR:

 1 = GREEN    2 = PURPLE

## 17. SEED PROTEIN:

 1 = A    2 = B18. NUMBER OF DAYS TO FLOWERING  
(Place a zero in first box (e.g.   ) when  
days are 9 or less.) 

## 19. MATURITY GROUP:

 1 = 00    2 = 0    3 = I    4 = II    5 = III  
6 = IV    7 = V    8 = VI    9 = VII    10 = VIII20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box  
(e.g.   ) when size is 9 mm. or less.)    MM. LENGTH  
OF SEEDLING    MM. LENGTH  
OF COTYLEDON    MM. WIDTH  
OF COTYLEDON

## 21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

 BACTERIAL  
PUSTULE SOYBEAN  
CYST DOWNY  
MILDEW PURPLE  
STAIN POD AND  
STEM BLIGHT ROOT  
KNOT FROGEYE STEM  
CANKER PHYTO-  
PHTHORA BROWN  
STEM ROT TARGET  
SPOT BROWN  
SPOT BUD  
BLIGHT WILDFIRE RHIZOCTONIA  
ROT OTHER (Specify) Bacterial Blight

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Prize	Petiole angle	Kanrick
Leaf shape	Prize	Seed size	none
Leaf color	Verde	Seed shape	Kanrick
Leaf surface	Verde	Seedling pigmentation	Verde

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

Peterson Jade VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Peterson Jade Submitted	120	2.4	34 1/2	--	--	42.9	20.9%	Depends on	--
Name of similar variety Disoy	109	2.8	33 1/2	--	--	41.6	21.6	Planting rate	--

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

- 1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
- 2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
- 3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"